	Application No.	Applicant(s)
Notice of Allowability	40/524 994	HAICHETAL
	10/531,884 Examiner	HAIGH ET AL. Art Unit
		4000
	Karen Cheng	1626
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>amendments filed 06/21/07</u> .		
2. The allowed claim(s) is/are <u>1-12, 14-15, 21-24, now renumbered 1-18.</u>		
 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application
Notice of Preferences Cited (FTO-092) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	
	Paper No./Mail Da	te <u>20070717</u> .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>04/27/07</u> 	7. 🛛 Examiner's Amendi	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	

Application/Control Number: 10/531,884

Art Unit: 1626

DETAILED ACTION

Claims 1-24 are currently pending in the instant application. Claims 13 and 16-20 have been cancelled by applicant. The remaining claims have been renumbered as Claims 1-18.

Information Disclosure Statement

Applicant's Information Disclosure Statement filed on 04/27/07 has been considered. Please refer to Applicant's copies of the 1449 submitted herewith.

Response to Amendments

Applicant's amendments found in Amendment – After Non-Final Rejection, filed 06/21/2007, have been fully considered and are entered. The objections to claims 1, 3-12 and 21-24 have been withdrawn in view of Applicant's cancellation of non-elected subject matter. The enablement rejection(s) under 35 USC 112, first paragraph of claims 13-15 have been withdrawn in view of Applicant's amendments as well as the following Examiner's Amendment. The ability of compounds such as alpha-interferon and/or ribavirin to treat hepatitis C virus (HCV) infection, along with evidence that inhibition of NS5B RdRp can help treat HCV (see p. 3 of the specification) would allow one of ordinary skill in the art to foresee using the claimed compounds which have inhibitory effects on NS5B HCV polymerase (see p. 102-105 of the specification) in treatment of HCV infection.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

Art Unit: 1626

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

1. Delete from Claim 1,

provided that i) E and G are not both hydrogen; and

- ii) the compound is other than
- 4-ethenyl-1-(2-nitrobenzoyl)-2,2-pyrrolidinedicarboxylic acid, diethyl ester;
- 1-(2-aminobenzoyl)-4-(1-hydroxyethyl)-2,2-pyrrolidinedicarboxylic acid, diethyl ester;

with Applicant's Representative Karen Prus on 07/16/07 and 07/18/07.

- 4-(1-hydroxyethyt)-1-(2-nitrobenzoyl)-2,2-pyrrolidinedicarboxylic acid, diethyl ester;
 - 2. Delete from Claim 14, "or preventing".
 - 3. Replace the two instances of "Formula (I)" in **Claim 22** with -- Formula (Ia) --. Authorization for this examiner's amendment was given in a telephone interview

Reasons for Allowance

The following is an examiner's statement of reasons for allowance.

This invention relates to compounds, pharmaceutical formulations, process of

preparation and method of use of compounds of Formula (Ia) $^{\rm O}$ $^{\rm O}$ $^{\rm O}$ wherein A is hydroxyl, D is aryl, E is heteroaryl or heterocyclyl, G is hydrogen or C₁₋₆ alkyl optionally substituted as defined and J is C₁₋₆ alkyl, heterocyclylalkyl, arylalkyl or heteroarylalkyl. The closest prior art has been made of record (see Non-Final Rejection, mailed 04/16/07) and discloses compounds wherein G is halo, substituted

Page 4

Application/Control Number: 10/531,884

Art Unit: 1626

thio or oxy, but fails to teach or suggest compounds wherein G is C₁₋₆ alkyl substituted

as defined of the instant application.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Karen Cheng whose telephone number is 571-272-6233. The examiner

can normally be reached on M-F, 9AM to 5:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph McKane can be reached on (571)272-0699. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

REBECCA ANDERSON PRIMARY EXAMINER

Supervisory Patent Examiner, AU 1626

Karen Cheng Patent Examiner, AU 1626 18 July 2007